

WHAT IS CLAIMED IS

1. A device for testing femoral head prosthesis having a blind bore for receiving one end of a femoral head prosthesis, said device including a frame provided with a shaft projecting from the frame, said shaft having a substantially complementary shape to that of said bore and being associated with means for applying pressure onto said inner bore wall when a femoral head is fitted onto said shaft, wherein the shaft includes a sealed jacket having at least one deformable lateral wall portion, and a socket fitted onto said jacket and provided with elastic fingers, which extend substantially facing said deformable wall portion of the jacket, and wherein said jacket defines an inner chamber in communication with means supplying a pressurized fluid such that the fluid pressure is transmitted to the inner bore wall via said deformable wall and said elastic fingers.
- 5 2. A test device according to claim 1, wherein the shaft further includes a sleeve tube covering said socket at least in the region of the fingers.
- 10 3. A test device according to claim 2, wherein said sleeve tube is elastically deformable.
- 15 4. A test device according to claim 3, wherein said sleeve tube is made of synthetic material.
- 20 5. A test device according to claim 4, wherein the sleeve tube is made of polyethylene.
6. A test device according to claim 3, wherein said sleeve tube is made of metal.
- 25 7. A test device according to claim 1, wherein the sealed jacket includes in its upper part reinforcing means for limiting transmission of the pressure prevailing in said chamber towards the bottom of the bore along the longitudinal axis of said sealed jacket.
8. A test device according to claim 1, wherein the jacket is dimensioned to resist pressures of the order of 6000 bars.
9. A test device according to claim 1, wherein the jacket is made of hardened metal.
- 30 10. A test device according to claim 1, wherein the bore has a truncated shape.
11. A test device according to claim 1, further including means for supporting the base of the femoral head whose height can be adjusted with respect to the shaft in order to fit different bore depths.

12. A test device according to claim 11, further including counter-support means for applying the femoral head against said support means.